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Using Machine Learning to Interpret Arrival Directions of Ultra-high-energy Cosmic Rays

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We propose a machine-learning-based method to test various hypotheses about possible sources of ultra-high-energy cosmic rays (UHECR) using their arrival directions. We test the discriminating power of the method on the recently proposed realistic UHECR origin scenario [1], assuming several particular nearby active galaxies as source candidates.

[1] Phys.Rev. D96 (2017) no.8, 083006

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